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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/743,780	12/24/2003	Hitoshi Hayakawa	Q79166	9461
23373	7590	04/29/2004		
SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			EXAMINER TRAN, LY T	
			ART UNIT 2853	PAPER NUMBER

DATE MAILED: 04/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/743,780	HAYAKAWA ET AL.
	Examiner Ly T TRAN	Art Unit 2853

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1 and 2 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1 and 2 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some *
 - c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 12/24/03.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

1. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayakawa (USPN 5,907,336) in view of Matsui et al. (USPN 5,896,143) and Matsuhashi (EP 786,351).

With respect to claims 1 and 2, Hayakawa discloses an ink jet recording device provides with a recording head that is mounted on a carriage (Fig.1: element 1), a recording medium guide member (Fig.1: element 20) having an ink receiver hole for receiving ink discharged for the recording head, the hole being formed on the recording medium guide in position beyond the left edge of the recording medium conveyed (Fig.1: element 35) as well as having ink absorbing material placed in the ink receiver hole Column 2: line 66-67).

However, Hayakawa fails to teach a hole beyond the right edge, a discharged liquid accumulating means that cumulatively counts the amount of ink discharged into the ink absorbing material, an accumulation determining means which verifies that the count has reached a specified value and switches to a printing mode that does not

discharge in into the ink receiver hole when the accumulation determining means verifies that the specified value has been reached.

Matsui et al teaches two holes, being arranged to receive the discharged ink, disposed on two side of the recording member (Fig.15: element 30, 31).

Matsuhashi teaches a detector to detect when ever the ink absorbent material of the waste ink tank is full (by detecting the level of ink to see if the waste ink tank is full, the volume of waste ink is counted and the specified value is full) then stop the printing operation (Column 19: line 36-58, printing stop is different mode, so when the printing stops, no ink is discharged into the waste ink tank)

It would have been obvious to one having ordinary skill in the art at the time the invention was make to have multiple discharged holes on the edges of the recording medium as taught by Matsui et al. The motivation of doing so is in order to prevent defective ink discharge, minimizing the width of the recording apparatus, reducing the size and the weight and improving the through put at the time of the recording operation (Matsui et al. USPN 5,896,143 Column 7: line 23-28).

It would have been obvious to one having ordinary skill in the art at the time the invention was made with the discharged liquid accumulating means and stop printing operation when the waste ink tank is full as taught by Matsuhashi. The motivation of doing so is in order prevent the waste ink from leaking from the waste ink tank.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ly T TRAN whose telephone number is 571-272-2155. The examiner can normally be reached on M-F (7:30am-5pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on 571-272-2149. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lt

April 22, 2004



Stephen D. Meier
Primary Examiner